

MIKE KIRBY, K4VFX
PANAMA CITY, FLORIDA'S
Top Contest Man
(See Scores Elsewhere)

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~~_____~~
~~_____~~

6

FLORIDA SKIP

Vol. II No. 2

The All-Florida Radio Amateur's Publication

JULY 1967

Price 20¢

ANNUAL FLORIDA QSO PARTY

By Dave Hayden, W4WHK

It gets better every year! CW-wise that is, but the fone portion keeps regressing. We had a new record for cw logs and scores, and close to a complete bust in fone entries. Not that there wasn't some activity on fone -- just no logs to find out who scored. Although participation among Fla. CW stations was up, it still is far from what it could be. To reiterate; who do or where do the "Big Guns" disappear into the woodwork when this test rolls around?

Sample comments from out of state ops: "Best state QSO party of all", "I like the split operating hours", "Why not a longer contest"? (Can't please 'em all!), "I'll try again next year for all those rare counties", "Will try CW next year" (40% of fone entries' comment).

Most statements from Fla. ops were complimentary, although there were some complaints, partly justified, about multi-op stations. We have tried to cover all situations in the rules, but it just doesn't seem possible. We'll try to fix this for next year, along with greater clarity on scoring rules.

Top scorers on cw were K4VFX (3rd straight year), and W4BYB, with WB4EBV and W4SMK heading fone entries. Leaders out of state were WA3BDK on CW, and WA5GJM on fone. Top foreign cw ops were VE1AE and G3FKM, with 3CCKW and YV5BPG on fone.

The logs ranged from beautiful to --ugh! Prettiest from out of state was WB2MRA's CW

log, with several neat entries from Fla. An almost, but not quite axiom is: Better ops, better logs -- almost not quite. Next year we'll take another crack at it, so please work on the rare county and "big gun" boys to join us. Certificates to the diligent winners should be in the mail by SKIP delivery time.

New Dade County Emergency Coordinator

Meet the new (finally) Emergency Coordinator for Dade County. Larry Crowe W4FHZ, 174 NE 109th St., Miami Shores, Fla. 33161 Phone 754-4916. Born July 5, 1940 in Chicago, Ill. Moved to Miami in 1945. Attended local schools and graduated in 1958 from Archbishop Curley High School. Obtained Novice license in 1960 while working in Akron, Ohio and General in March of 1961. (K8UHV). Moved back to Miami Jan. 1966. Is active member of the North Miami ARC since Aug. '66. Presently club treasurer. Works as office clerk in general office building of Florida Power and Light Co., Miami.

All AREC matters and applications should be forwarded to Larry at the address above. As you may know there is no (repeat NO) annual ARRL SET (Simulated Emergency Test) this year. It is set-up for Jan. 27-28, 1968. So who needs a SET with live hurricanes each year in Florida. How are your guy wires old man?

Suncoast's- ART BOND

Amateur of the Year



Art has been active in VHF Amateur Radio since 1957. Operated from No. 1 fire station during working hours and from the home station many additional hours. Attended every VHF Club meeting, serving for a number of years as net manager of the Suncoast Net.

Art was always willing to aid fellow Hams or anyone else interested in radio. As a service to VHF hams in the Suncoast area, Art designed and spent many hours building, and often helping to install, the now famous "ART BOND" ground plane antenna.

Instrumental in organizing the first VHF Amateur Civil Defense Unit. All monies contributed to cover the cost of materials for the antennas he built was turned over to the VHF Club Treasury.

Art has for many years monitored the 50 mc band, passing the time of day with many and all stations. Has directed many a visiting mobile about the streets of St. Petersburg.

Although retired from the fire department, he still actively participates in AREC and MARS

(Continued on Page 11)

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Special Assistants - Lee Wilson W4KUD
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PERMISSION: Anything in Florida Skip may be reprinted in any other amateur radio publication in the world with a Credit Line please.

Dear Mabel XYL Award, c/o Skip, Box 501, Miami Springs, Fla.

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IT'S A FACT, Geo. Hunt, W4NUT
1218 S.W. 21st Ct., Ft. Lauderdale.

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VHF - Bertha Eggert, WA4BMC,
1510 - 17th Ave., No., Lake Worth.

Amateur TV, Robert Montgomery K4VFV, 903 Ferndell Rd., Orlando, Fla. 32808

ARMY MARS, W. E. Rabenhorst AD4VWY, 1715 - 29th Ave., Vero Beach, Fla. 32960

AF MARS, Alan Strauss, WA4JTK, Carol City, Fla.

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FLAMINGO, W4EDP, Miami
QFN, WA4OHO, St. Pete
TPTN, W4SMK, Ft. Myers

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Ft. Myers ARC, W4SMK, Ft. Myers
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Suncoast Roving and Florida, W4BAV, Sarasota
Indian River ARC, WA4KJV, Rockledge

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SCM-EASTERN FLA. Jesse Morris W4MYB, P.O. Box 1241, Jacksonville Beach, Fla. 32051

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SEC-EASTERN SEC. Andy Clark, W4IYT, 41 Lenape Dr., Miami Springs 33166.

SEC-WESTERN SEC. G.D. McKech-nie, W4IKB, 1000 N. 6th St., Chip-ley, Fla. 32428



Letters To Editor

Editor, SKIP:

I believe my present subscription to Florida SKIP expires either in August or September. I am therefore enclosing my check for two dollars to renew my subscription for another year.

I enjoy the Florida SKIP very much. In fact, I like it better than the QST which I discontinued taking a year ago after subscribing to it since 1948.

I have a friend who will look after my next two copies while I am away, so no need putting you to any trouble to mail them to me for just this month. I am going to be in Bay Harbor, Maine and perhaps I can get my old ham friends there interested in Florida SKIP.

73,
Heyl C. Hartzell, W4DLB
Lake Park

Editor, SKIP:

Congratulations on your fine spread in June SKIP showing how it is put together. Having been a printer in years past, I can appreciate what you go through each month. I think you did an excellent job of letting everyone know what it takes to make up an issue of SKIP.

Keep up the fine work,

Larry Crowe
W4FHZ-Miami

Editor Florida Skip, Inc.

I herewith have the great pleasure to nominate my dear XYL for your famous XYL-award. Her name is Gunborg Graan and her sweet name daily called "Gunsan". She is a beautiful wife and has a lot of indulgence for my very high interests of ham-radio operating night and day, and her happiness is as much as mine when I get a new rare DX on the bands and she knows the most of us hams but sorry, she cannot read morse yet, maybe that's the best, hi. Enclosed is 2 IRCs to over your expenses, I hope.

Yours sincerely,
Olof R. Graan,
SM2RI
O. Kyrkogaten 14 B,
UMEÅ, Sweden

Editor:

I was looking over the June Florida SKIP while sitting at the rig, and on page 16 there was an interesting picture of a pleasant new novice, Bonnie. My receiver was on and a familiar call came thru the speaker. It was WN4FSF. I checked the SKIP and sure enough there was Bonnie. I answered her CQ and it resulted in a most exciting and pleasant QSO I have had to date. WN4FSF has a smooth fist and easy to copy. Congratulations to Bonnie, and I hope this is the beginning of a very exciting experience in amateur radio for her.

Howard Ettinger, WN4EOG

Editor:

Just want to let everyone know I am active on 40 and sometimes 15 in the evenings. I am 13 years old and in the eighth grade. I am a "B" student. My inspiration to get a ticket came from my brother Dave, WA4-

WIX and Lambert Palmer, WB4CSP. I am going to try for my general in July or August, depending on how soon the theory sinks in.

73
Bonnie Wieboldt WN4FSF
Sanford, Fla.

I nominate my wife, MILLED, MAJOR for the "Dear Mabel Award." I have been an active radio amateur since 1927 and she has put up with me all these years without a word of complaint. I spend hours operating the station and she is always by my side reading, writing or knitting, or just doing house work. She is a wife in a million.

Dady S. Major
VU2MD
Bombay, India

EDUCATION OF XYL

When I was a brand-new bride I was uninformed and tried to hide

My ignorance of Ham Radio But years have passed and now I know

All the symptoms of this disease I can rattle them off with perfect ease

A Ham is ready to give his all He can be stone deaf to a dinner call

He can jump out of bed at five am

And run to the shack to be the first Ham

To tell on the air how his set acts

Of the thrills he has had and his latest contacts

All through the years he's loved to repair

And revive his old sets weakened by wear

But now we have the new Side Bands

All flawless and new for radio fans

It's supposed to be tops, but this XYL

Thinks it sounds like a frog in a well.

Mrs. William E. Warning
XYL-W4LAW

SILENT KEYS

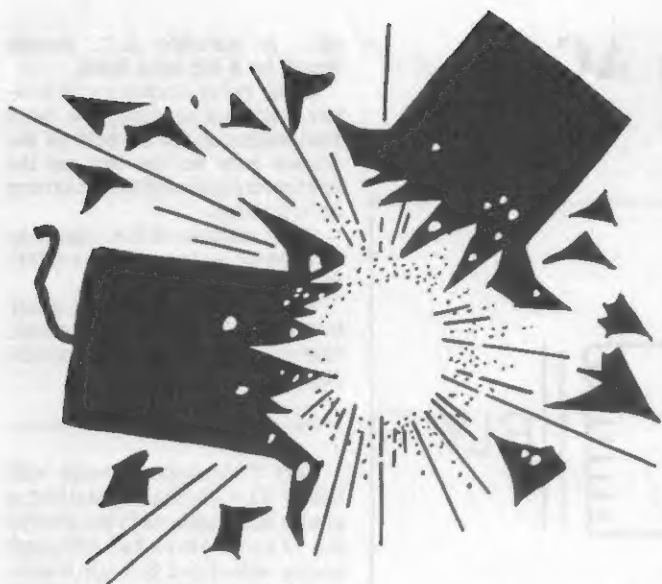
FLORIDA SKIP is deeply sorry to record the passing of the following Florida amateurs.

Herb Hamilton, K4KDN (May 21st), Winter Haven.

Charles McIntyre, K4TMN (June 6th), Orlando.

Harlow M. Case W4BM, Sarasota.

Theodore E. Obrig W4JIT, Sarasota.



July Specials

Tip-Top - Best Available in the Miami Area!

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32S-1	SSB Transmitter	375.
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312B-4	Station Control Console	150.
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CENTRAL ELECTRONICS

10A	SSB Transmitter	40.
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DRAKE

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EICO

723	Transmitter	29.50
720	Transmitter	65.

HALLICRAFTERS

CRX-2	Police Frequency Receiver	75.
CRX-3	Aviation Frequency Receiver	50.

HAMMARLUND

HQ-100	Receiver	75.
HQ-100AC	Receiver	155.
HQ-170A	Receiver	249.
HQ-180	Receiver	269.

HARVEY WELLS

TBS-50D	Transmitter with Power Supply	25.
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HEATH

HW-30	2 METER Transceiver	34.50
DX-60	Transmitter	55.
HO-10	Monitor Scope	55.
GR-54	Receiver	69.50
HW-12	Transceiver with Power Supply	110.
HX-20	SSB Mobile Transmitter	} COMPLETE
HR-20	SSB Mobile Receiver	
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HS-24	Speaker	
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KW	Transmitter	395.
Invader	Transmitter	250.
Ranger No. 2	Transmitter	175.
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250-46	Phone Patch	18.50
SWR	Coupler and Indicator	18.

LAFAYETTE

HA-500	Receiver	90.
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NATIONAL

NCX-5	Transmitter and Power Supply	530.
NC -270	Receiver	85.

SWAN

Mark-1	Linear Amplifier	375.
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GLOBE

Chief	CW Transmitter	27.50
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CORNELL-DUBILIER

HAM-M	Rotator	60.
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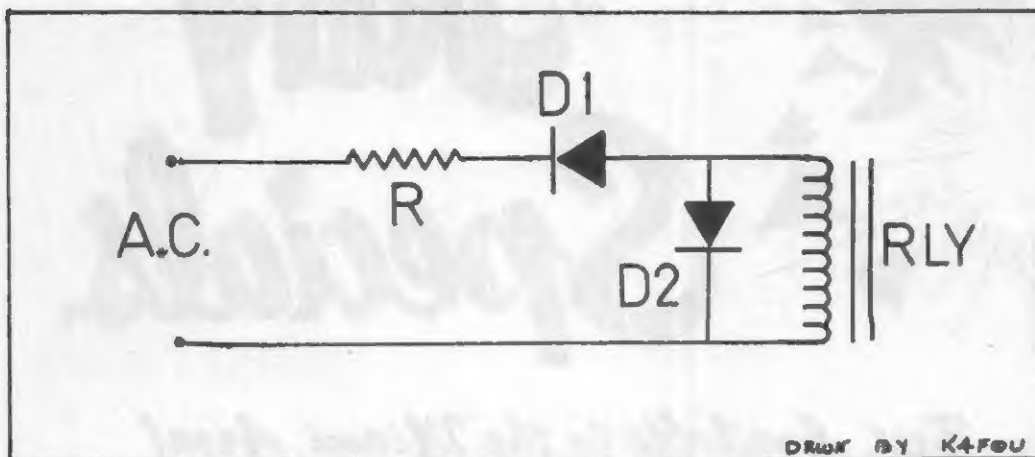
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FLORIDA SKIP, July 1967 3

Using DC Relays On AC

A Reprint from the third U.S. Army Mars OTI,
November 1963.



D.C. relays are readily available in most junk boxes but are seldom used in amateur gear. By the simple use of two diodes and a resistor these surplus relays can be put to good use.

The diodes can be any convenient type that will carry and provide the required relay cur-

rents and voltage. At 60 CPS, D1 will carry about 55% of the current and D2 about 45%. Diodes should be selected with a higher current rating than that needed to provide a safety factor. Diode D2 conducts current that is generated by the collapsing magnetic field of the relay coil which keeps relay closed

when D1 is not conducting. Resistor R is a dropping resistor and is used to limit the A.C. voltage to that of the D.C. relay coil requirements. Value of Resistor R can be found through the use of Ohm's Law or by substitution starting with a high value so that the ratings of the diodes and coil are not exceed-

ed. A variable A.C. source would be a big help here.

If the relay chatters with proper voltages applied, the back resistance of one or both of the diodes may be too low, or the spring tension may be too strong or too loose.

Drop out time of the relay may be slowed by inserting a resistor in series with D2.

For more information refer to International Rectifier Corp. Engineering Handbook if available.

Bell Telephone System will spend \$1.4-million installing a public telephone service aboard the experimental 150-mph trains scheduled to begin Washington to New York & New York to Washington runs later this year. 9 base stations along the route will be used to route calls to Philadelphia where they will enter the regular phone system. 11 simultaneous calls will be handled, compared to 2 simultaneous calls presently handled on the two NY-Washington trains which have phone service.

(From LERC BULLETIN-
W6DDB Editor)

3 times greater antenna feeder performance

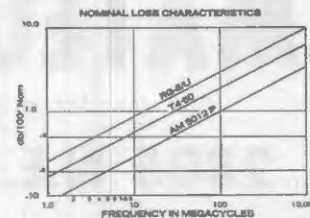
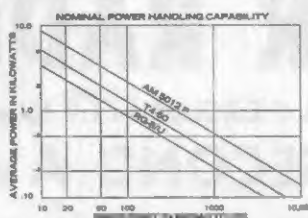
Kit Prices Start at
\$29.95
Available at
Microwave
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Seamless aluminum sheath coaxial cable and connectors with matched electrical characteristics make the difference. Low VSWR. No radiation. Two-thirds less attenuation than ordinary RG/8a coaxial cable!

Kit includes 50 feet of 1/2" 50 Ohm Alumifoam coaxial cable, two connectors or adaptor splices and full diagramed instructions. Several kits available

Easily installed—no special tools or techniques needed.



See for Yourself How This Kit Can Decrease Feeder Attenuation over RG/8a Type Cable By at Least 2.2 db/100 ft.

TIMES WIRE & CABLE A DIVISION OF INTERNATIONAL SILVER COMPANY, WALLINGFORD, CONN.

*Dear Gladys
and Mabel:*

I hope you won't think I am presumptuous in writing, but I feel that I know you both, having read your letters in "Skip". Perhaps you remember me, I was the woman at the Chinch Bug Festival with the tape measure and the scales.

I, too, have the problem of larger and dustier trade items and although I know my husband sometimes feels henpecked, I just had to do something.

It wasn't too bad when the plaster cracked in the kitchen or when the floor started slanting down on the west side (it really made scrubbing a lot easier - you could just push the water out the door on that side); however, when the floor sank below the ground and the water rushed right back in, I had to put my foot down.

WE HAD A TALK!! You CAN have talks, you know. All you have to do is hold your nose so that you sound like a Single Sideband. Well, we talked and this is the solution we reached: He can bring home nothing larger than will go through the door without removing the door jamb, nor anything heavier than the combined weight of the children and me. This seems to work out pretty well, at least he is satisfied.

As an XYL of long standing and an old pro at circumventing dastardly schemes of ham husbands, I hope my idea will be of some help to you.

Yours for stouter foundations, SUE

P.S.- I feel that there may be a flaw in my thinking somewhere as my older boy is three inches taller and ten pounds heavier than he was last year when we made the agreement.

DEAR SUE:

We enjoyed your letter and are printing it in order that it may help some of our other readers. It won't help Mabel. That flaw you pointed out applies to her. She looks about ten pounds heavier this year and I keep telling her she needs a stouter foundation. A Playtex, maybe.

Your friend,
GLADYS.



AFB4JTK/AFC4BND

In April there were in excess of 12,000 phone patches passed to and from Viet Nam. It seems to be getting better every month. The most widely used frequencies are 20994; 21994; 27994 kcs.

Thanks to AFB4DQE, G.E. Sammons of Ft. Myers and his crystal bank. He has the thankless job of ordering, sorting, mailing and collecting for those special crystals which are not in the crystal bank. Besides that he is running phone patches to and from Viet Nam, with his daddy AFB4JOF. We all know AFB4JOF (Red) as NCS on 2S1 on Monday nights.

The news that the Mars meeting at Orlando last month came out in an aircast and it stated that it was a success. Those who participated and set it up should be very proud.

AFB4DEV's 6 meternet, FL-2L6 covers all of 13 cities and only needs a Kissimmee station to make it 14. He has 31 members. Besides a phone net, there is also a 6 meter RATT net which I understand is very active. Russ Steward, AFB4TXW just returned from Viet Nam and will be active soon, in fact he probably is, as you read this.

AG2DZ Homestead AFB, has an operator named Sunday. He is running a very efficient base station. Maybe Sunday can get some help soon. For a one man operation he's kept on his toes.

The 1967 AF picnic and meeting for Georgia was held on Sunday 21 May at Hard Labor Creek State Park, near Rutledge, Ga. There were 37 members present. A business meeting was held after the lunch and was led by AFA4DNB Ga. State Mars Dir. About 120 persons were present at the picnic and a good time was had by all. Thanks to AFA4EEJ for making all arrangements.

Carroll I. Carman, AF4ZCZ in Miami, Fla. is the Net Mgr. of FL2ML7 and has capabilities of RATT, all freqs., Area net. 6 and 2 meters and all test equip for the maintainance for same.

Those of you who are interested in joining AF Mars should contact any Mars station in your state or your State Mars Director.



CAPE KENNEDY HAMFEST

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CLUB NEWS

FT. MYERS

By Ken W4SMK

The Field Day Committee came up with a new wrinkle for W4LX/4. We usually work all day to get the stations on the air, and then are too tired to operate them. This time we are having a contest to see if we can get everything set up by noon Saturday. Two teams will be working against time, and if they succeed in meeting the deadline we all get a free meal and a good rest until operating time rolls around.

If we set a time record this year in erecting the FD antennas and stations we will try to beat it next year, etc. We even have two impartial judges and a set of ground rules to make sure no cheating goes on. Field Day Committee members are W4KET, K4FQU, W4WYJ, W4DQE, and W4SMK. GL to all the other clubs in FD.

Congratulations to the small but active Ocala club on their fine club station and work with MARS in the Viet Nam pipeline. Here in Ft. Myers AFB-4DQE and AFB4JOF have been quite active in handling both written and phone patch traffic from Viet Nam and Germany.

W4UJX/4 has bought a nice home in north Ft. Myers and will be moved to the new QTH by the time you read this.

We will surely miss Herb K4KDN and his fine fist on the CW bands, and also Mac K4TMN on phone. Regret to see these calls in the Silent Key column.

Congratulations to SKIP on their "birthday", and it was good to see the hard working crew that helps W4IYT put out the paper. Support your Fla. Amateur Journal with your subscriptions and also help them with the advertising if you can.

The hurricane season is officially

upon us so keep your generators well oiled and your fingers crossed. 73

NOMARC

By Karl Richardson WB4CKU

It's been a long time since NOMARC's column has appeared in SKIP. Not that we did not have anything to say, but we had no one to write it. Unfortunately, I have been railroaded into my first venture in journalism.

Highlights of the past few months include the club's activity at the Orlando Hamfest. Sprinkled throughout the crowd were: Larry, W4FHZ; Glynn, WA4LHK; Tandy, K4YSN; Bill, WA4MKD; Brian, WA4VZW; Karl, WB4CKU; Jeff, WA4RLC; and John, WA4QLZ. We all had a good time, and we'll be back next year.

NOMARC's construction gang has been very busy recently. The newest addition to the shack is the mainline TTL converter for receiving radio-teletype. Using a Collins 75-A3 receiver and a model 19 teletype machine, we are getting good copy from all stations heard. Next in line is a FSK'er for the B&W transmitter, and barring Murphy's law, we'll have the green keys clicking pretty soon. All the teletype goodies are now set up in a newly acquired relay rack -- very impressive!

Our lately formed two-meter club net is off to a great start. Along with our 2-meter FM base station, several members have already purchased surplus 150MHz mobile transceivers. Everyone should have a unit soon, and a well organized VHF net will be a terrific asset to our communication needs as well as the local Civil Defense's.

The club's very successful code and theory class has finally ended, with all students receiving their tickets. Future plans for another class are in the works, and will be held as soon as we get enough prospective pupils.

NOMARC

WA4JKF

The North Miami Amateur Radio Club

Meets every 2nd and 4th Thursday at the North Miami Municipal Building

776 N.E. 125TH STREET

PH. 751-8431

AREC-CW-CD-RACES
RTTY-SSB-NETS

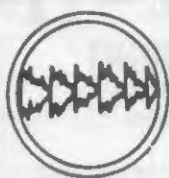
BROWARD AMATEUR RADIO CLUB, INC. W4AB

Meets 2nd Wednesday of Month
All amateurs invited to attend club meeting at:

Broward County Medical Association Bldg.
2200 S. Andrews Avenue
Ft. Lauderdale, Fla.
2nd Wed 8 pm
Affiliated with ARRL -
AREC - CD

FLORIDA SIDEBAND ASSOCIATION

Meets Sundays 2200 GMT - 3940kHz



FSBEN - Thurs.
3940kHz
0030 GMT
FAST Net
Daily
3940 kHz
2300 GMT

A FRATERNAL ORGANIZATION
All Sidebanders Always Welcome



LES GRINER, K4SJC of Titusville takes 40 winks while waiting for the DX bands to open. 'Hey, les - don't drop that mike.' Les is an active member of the newly formed TITUSVILLE AMATEUR RADIO SOCIETY.

(Photo via WN4EHG)

Congratulations to Larry Crowe W4FHZ, our able treasurer, who has just been appointed EC for Dade County.

Everyone is invited to attend meetings of the North Miami Amateur Radio Club on second and fourth Thursdays of the month at 2400 GMT in the North Miami Municipal Building at 776 N.E. 125 Street, North Miami; Phone 751-8431.

W. PALM BEACH

By John A Benjamin Jr.

We are proud to announce that we have two new members. One of the new members is Steven Mandell, WB4DVH. Steve is also an active member of Navy MARS.

Field Day was a complete success here. More details will be printed in our next article.

If you would like to visit us we would like to see you! You are welcome any Monday or Friday evenings from 7:30 P.M. Our address is 823 Newark St. in West Palm Beach.

Work is progressing very well on our mobile van. Plans have gone through, according to our chief mechanic Ted Kohl, WA4IXU, to clean the engine block and to paint it. Also plans are under way to secure permanent racks inside for emergency use.

Well hurricane season is here again. It is time for you to get a fresh supply of maps for this season. The weather bureau in Miami has some real nice maps and they're free too!

HARS NEWS

By Roy Scott - W4UHF

Although there will be no regular meeting in June or July, HARS educational activities continue in full swing. A new Novice class in code and theory started June 5th with 25 students. Code instruction is under the direction of Paul Bick, WA4JYD and the theory instruction conducted by Frank Ryan, WB4ETO and Herb Brown WA4IMU. The classes of instruction for General also got underway on June 6th, theory instruction being given by Al Cito, WA4MXV who is also a physics and science teacher at Hillsborough High School. High speed code instruction

under the supervision of Paul Bick WA4JYD.

The Hamfest Committee reports continuing progress on plans for the TAMPA HAMFEST sponsored by HARS and to be held this year at beautiful Lowry Park October 15th - rain or shine. There will be lots of prizes for the entire family in addition to many fine prizes for amateurs. The Swap Table section promises to be one of the best with plenty of room for your gear in an uncrowded area. Lots of free parking in the Park. Be sure to make plans now to attend Tampa Hamfest, October 15th.

Herb Brown, WA4IMU was given the HARS Certificate of Merit at the May meeting. The award, which included a paid-up HARS membership for the rest of 1967, was made for Herb's assistance to HARS on numerous occasions, and his untiring devotion to the cause of Amateur Radio by assisting newcomers and old timers alike with technical and material help in solving electronic problems that come up. The presentation was made by HARS Membership Committee Chairman, Roy Scott, W4UHF.

The next regular meeting of HARS will be August 22, 1967 at the Odd Fellows Hall, 6220 Nebraska Ave., in Tampa. Members, their friends and families are always welcome.

ORLANDO RAMBLINGS

By Hal, W4BKC

Seminole County Civil Defense conducted a full scale drill, with a Hurricane followed by a tornado. The Orlando Civil Defense part of the circuit was handled by Ev K4UIZ and Hal W4BKC. Seminole County was ably represented by Lambert WB4CSP, Claudine WA4SI, Case W4NGR, Jim WA4YDY, Bill WA4BOY, Al WA4RGO and Larry K3ROS/4. Some CB units participated headed by Bill Back, KOP-2127. From this end you could see the message handling improve during the three hour drill. It looks like they have a real capable group. The C.D. Director and other officials who participated were real surprised and pleased with the overall results.

It was with deep regret that we learned of the passing of Major Ed-

CLUB NEWS

ward J. Smith, who had been Civil Defense Director of Osceola County for many years. He was retired from the Signal Corps and naturally very much interested in the Communications aspect of Civil Defense. The hams in Osceola County have lost a real good champion and friend.

Members of the Orlando Amateur Radio Club will be at a camp ground in Orange City for the Field Day week end. Plans at present call for taking along one transceiver. So if you hear W4PLB/4, that's where all the noise will be coming from, if we aren't asked to leave.

The Hamfest Committee of the Orlando Amateur Radio Club has completed negotiations with the Quality Court Motel on West highway 50. This will be the site of the hamfest in 1968. There are 250 rooms, lots of meeting rooms, two large pools and most important from some of the remarks heard previously, just oodles of parking space. This move had been contemplated for some time and when we heard that the Quality Court had completed the addition of some hundred rooms, the Committee took a look and decided this was what they had been looking for. Wait till you see it next year, you'll agree I'm sure.

INDIAN RIVER NEWS

By D.R. Klobe WA4KJV

Well, field day is over and what fun. Sorry I couldn't help but you know how vacations are. I'll bet I get my feet wet next year.

Our club president Bob Bruner, W4KDT, has a new monkey chatter machine. Been so used to hearing him with the old Elmac that I thought my receiver had gone on the fritz when I first heard him on SSB. Not too many of us die-hards left on AM anymore.

Talked to Bill Price, WA4JIC, and Van, W4BD, who just got back from a trip to Grand Turk Island and they told me that they saw Chuck Heisner, K4FOJ. Chuck was a member of our club before he moved to Grand Turk Isl. Chuck has a new call now, VP5CH. He was telling Bill and Van that he hears our 80 meter net on Sunday's but not well enough to work us. Chuck is active on 15 and 16 meters from VP5 land.

John Ault, WA4WYM, at our May 23rd meeting, presented a program on Ultra Narrow Band Frequency Modulation. The program which John presented was the one that won him first place in the Regional Science Fair this year. After winning the Regional Science Fair, John went to San Francisco to present the program to the International Science Fair. John began working on his project at the beginning of the school year. He had an idea that voice information could be transmitted with very, very low deviation so with an FM transmitter borrowed from Civil Defense he set out to prove his theory. He designed



NEWLY ELECTED OFFICERS of the Lake Amateur Radio Association, Inc. (W4YKY) are left to right: W.D. Davis, K4UYN, EC Lake Co., C.A. Conklin, K4LPS, Custodian and Trustee, Howard Harris, W4MIH, Treasurer; Henry Sitkus, K4AOB, V.P., Owen Thompson, WA4NXXA, President and Wes Davis, Secretary. LARA has owned their own clubhouse, station equipment, etc., for many years.

frequency multiplier's and a demodulator and sure enough it worked. Johns tells me he has many more ideas along this line that he wants to try. Not only is John's school proud of him but the club itself is proud to have him as a member.

So much for another month. Best 73.

SUNCOAST ROVING REPORTER

By Cathy Soehl - W4BAV

The annual SPARC Hamfest, held at Philippi Park, May 14th, was well attended by hams from various parts of the State. As usual the Swap Table Shelter was crowded at all times and many transactions made. Pres., W4WME-Bill and his Committee are to be commended on a most successful affair. There were "loads" of wonderful prizes and the XYLS also shared in a special drawing. W4P-WB-Walt did a "whale of a job" Meing the distribution of prizes, with the able assistance of his XYL-K4-CSC-Edna and W4WME. The honor guest was W4LVV-Chuck Bolvin, ARRL SE Director, who gave an interesting talk and answered many questions.

W4RUR-Ed, congrats on completing 15 years, in June, of sending code practice two nights a week. It will never be known how many thousands Ed has helped on the air as well as personally.

K4KQR-Doug and XYL-Alice are proud parents of son, John, who has been commissioned 2nd Lt. in Air Force upon graduation from officers training at Lackland AFB, & assigned to Tyndall AFB for further training. John is also the brother of Floridora, K4LFA-Dot.

W4NOK-Jack was recipient of a nice picture at rig and write-up in Ham Shack column May 2nd. He and XYL-Frances WA4NFA are now in Ocean City, N.J., operating their hotel. They are missed in the Suncoast area and we look forward to their return in Sept. to their St. Pete home.

W4BAV-Cathy worked K4YQJ-Dave at Tyndall AFB, on 6-meters recently. Dave advises he expects to return to Suncoast area in Oct. - permanently, we hope.

W4WME-Bill and XYL, W4BIL-Fran having a wonderful trip, trailing to Mo., Ohio, etc. and etc.

B.A.R.C.

By Jim Wilson W4GDK

We are pleased to report that Ken Nordine WA4UYO, our Communications Officer for last year has agreed to fill in on that job for the remainder of '67. This is to replace another who must leave for college.

Hank Navalany, WA4FND, was our '67 Field Day Chairman. Coldwater-melon was served to the workers, more next month.

As an interesting concentration of club activity, the June issue of BARC NEWS will feature several stories about Field Day with a large picture of a Field Day scene.

As another innovation, the August meeting will combine a Dutch Treat dinner with a field trip to the A.T. & T. Overseas Radio station in Broward County.

At our June meeting Tom Middleton, our TVI committee chairman is scheduled to give us a talk on transformer design, construction and use.

We are pleased to report that more than 60 attended our last meeting. There are many in Broward County however, who are missing out on our interesting programs. We cordially invite you to attend at 8 PM the second Wednesday of each month. We meet at the Broward County Medical Assn. building 2200 So. Andrews Ave., Ft. Lauderdale.

Come and join us.

GULFSTREAM SOCIETY

By Al Suhr, WB4AID

As announced last month and after a series of special demonstrations, the Gulfstream Society of Amateur Radio Operators has decided to develop a two meter AM net of its own. How long the members can equip themselves is another story, but it won't be long.

The most pleasant surprise this month was the return of Pvt. Ed Wilder, WB4AIG home on a 14 day leave.

President Al, WB4AID, had as his guest of the evening WB4AGU, John Szymanski, home on leave from the

Air Force. John will have left for the Far East by the time this is read.

PLANS - PLANS - and more plans! Floyd Jones, WA4IXS and Mel Wrobble K4EBZ were co-chairmen of the ham week exhibition, which took place Saturday afternoon, June 17th. The place was Bryant Park Band Shell on South Golfview Dr. in Lake Worth. The public saw in operation, a real ham station, radio teletype and ham TV. Displayed was some interesting museum pieces of the radio world.

More plans! Jim Johnson, W4JBZ, Chairman of field day, announces something like 6 stations were used June 24 thru 25th. All bands - all modes.

HDQTRS Room Study Committee was appointed to pursue plans for development of our new facility so that operations, classes and shop can take place simultaneously. Chairman Floyd Jones, with Mel Wrobble, Stan Sealise, W4WZZ, Frank Piverotto and Bob Roderigue, WB4AIF.

Several of our students are ready for Novice and it looks like one will ready himself for General.

FLORIDORA NEWS

By Cathy Soehl - W4BAV

The Floridoras were well represented at the SPARC Hamfest and captured many of the prizes, both in the general drawing & XYL special drawing. New member, WN4FSF-Bonnie, who won the door prize at Orlando & pictured in last month's SKIP, won a beautiful hand made pillow at the SPARC Hamfest and WA4SH-Cuddie was delighted with the beautiful light blue stole made and donated by W4-BIL - Fran. WA4KYA-Viv picked up quite a few prizes. Where was W4-HRC-Bo??

K4HSC-Meg and OM enjoying their QTH at Young Harris, Ga. Says cold in Hiawassee, they have seen frost. Meg delighted her KWM-2 loaded up on her clothesline on all bands. Wants the gals to look for her and get a Ga. contact.

K4RHL-Elle was thrilled and enjoyed a visit from IIPHL-Hildegarde and OM-IlPEG, from Italy. Hildegarde is a YLRL member.

W4QBY-Dorothea received her DXCC certificate with 102 credits. She and OM-Arthur, expect to leave in June, flying to New York, Las Vegas and Hawaii. Will contact K4RNS-Marge's daughter when in Hawaii.

K4CVR-Bessie was welcomed back to the Floridora Net after a long silence. She and OM, K4CKK-Ray enjoyed a trip Apr.-May thru the West visiting friends and relatives. Had cool weather, 20 degrees in Colo.; however, the cold did not bother them as much as the elevation of 8200 ft.

W4BAV-Cathy had a "ball" on the recent 6-meter band openings, talking to many previous contacts, those met at YLRL Convention and biggest surprise was when WA4KZF-Inez, former Floridora of Tampa, called her from her portable station in Midland, Mich. It was nice to hear from Inez but frustrating when QRM and QSB prevented a 100% QSO.

WESTERN FLA.

By Frank M. Butler Jr., W4RKH

Pensacola; W4EUB is now custodian of the Corry Field club station, WA4-ECY. Pensacola is well represented on QFN, with K4BSS/4, W4COE, WA-

(Continued on Page 12)



SCM's CORNER E/F

By Jesse H. Morris,
W4MVB, SCM E. FLA.

Well this month the traffic dropped off a bit. I suppose the fact that Mae and Al returned to W3 land had something to do with it. Then again it is summer time and other activities get their share of attention.

This month I would like to talk mainly about counting traffic. I will lean very heavily on WINJM's column in June QST page 76. As George points out, counting traffic is on the honor system. It must be that way for there is simply no other way to do it. There are four categories which make up the total; origination, received, relayed, and delivered. An origination is a message that originates on amateur radio at your station for the first time. A received message is one received by you on amateur radio. A relayed message is one sent by you on amateur radio which did not originate at your station. A delivered message is one delivered by you to the addressee by means other than amateur radio.

Needed Now

I believe the most needed piece of gear for the SSB trade is a gimmick for indicating the opposite sideband and garbage. Something simple as the diode rectifier-lamp scheme as used on the old AM rigs for indicating negative peak clipping. If someone could come up with something in the \$20 to \$25 price bracket I believe they could make a killing and clean up some of the SSB troubles.

Another cheaper device could be a simple metal collar with a stop that could be slipped over the audio gain to stop it at a point about 30% below where the average ham runs it. It should be furnished free with each "just as good as" transceiver.

ONYX

SPECIAL THANKS

Our special thanks this month goes to WA4BMC, WB4AID, W4AZ, WA4DED, WA4JTK for getting new subscriptions to SKIP. Every little bit helps. BC

B FLORIDA SKIP, July 1967

Now how is it possible to relay more messages than you receive? This can be done by receiving a number of messages from someone else by means other than amateur radio and relaying them on to another point by amateur radio. They can be relayed to you by telephone or mule train or any other way except amateur radio. You can't claim a received credit for them but you can claim a relayed credit for them. Delivered messages are those which are delivered to their destination by means other than amateur radio. If you send a message to the addressee by amateur radio you merely get a relayed credit. MARS traffic must be re-filed into amateur form before it can be put on amateur frequencies and the station re-filing it gets credit for an origination. As George points out in his column, all traffic counted must be handled by amateur radio except deliveries and they must be handled by other means.

Perhaps this seems a bit too elementary to some of you but judging from the reports I get I am willing to bet there is at least one or two people reading this who learned something new. Keep the traffic reports coming through the summer and encourage others to do the same. Until next month good luck and 73 to all. De W4MVB.



THIS IS THE FACE behind that well-known voice of Sea Grove Beach, Florida. Loved by all K4QVL. Uncle Bud is a member of many NETS and is most active in the "West Florida Phone Net".

(Photo by W4IKB)

Florida QSO Party Final

SPONSORED BY FLORIDA SKIP

By Dave Hayden, W4WHK

CW	USA	CAL	K0GJD/6	1204
CONN	W1BHV	899	WA6KHK	630
NH	W1HTE	625	WB6IEX	505
	WA1FCN	264	WB6KBK	209
RI	W1GOG	490	W6CLM	144
ME	W1EIO	1441	W7ENA	392
	W1UOT	940	W7JHA	420
MASS	W1AQE	1558	WA7EVO	260
	K1HVV	1544	W8WVU	1545
	K1QFD	1450	WA8KME	20
	K1RPB	1092	W8KMF	1162
NJ	WB2MRA	1324	WA8MGD	165
	W2KHT	1060	WA8CNN	1324
	WB2UVB	616	WA8SDA	797
	WB2UIR	276	WA9EOD	790
	W2LYO	247	W9TCU	420
	WB2MOQ	288	K9UCR	64
	W2ESR	40	WA9ITB	1180
NY	W2ZV	1268	W9UTQ	430
	WB2SSK	804	K9GDF	708
	WB2WAD	724	WA9AQE	655
	W2TER	208	WA9GMK	432
MD	WA3BDK	1828	K0GVA	162
	WA3BYW	1684	WA0NVM	338
	W3DYA	1504	WA0EMA	252
	W3JXS	744	WA0OXO	505
	W3CDG	294	K0DEQ	242
	K3FHU	294	K0GSV	120
PA	WA3BGE	504	K0YGR	56
ALA	K4GMR	475	N DAK	WA1BBE/0
GA	K4RIN/4	1500	ALASKA	KL7FRY
	W4HYW	884		
	K4BAI	49	FOREIGN	CW
NC	K4MPE	1342	Canada NB	VE1AE
	WA4QLP	831		3C1DH
	WB4BGL	20	NS	VE1EK
SC	W4YDD	377	QUE	3C2IL
VA	W4CKD	1792	ONT	3C3CKW
	K4ZIF/4	580	ENGLAND	G3FKM
	W4WBC	221		G3WP
LA	W5BUK	1285	HUNGARY	HA5KDQ
	WA5QBO	729	DENMARK	OZ4H
OKLA	K5VTA	1732		

PHONE SCORES

USA		
IND	WA9ITB	1
N. MEX.	K4EXN/5	60
N.C.	K4MPE	90
TEX	WA5GJM	370
FOREIGN		
CANADA	3C3KW	49
Venezuela	YV5BPG	12

FLORIDA PHONE

DUVAL	WA4UFW	88
ESCAMBIA	WB4EBV	1914
Flagler	K4TBN/4	208

FLAGLER	K4TBN/4	208
LEE	W4SMK	550
PALM BCH.	WA4BMC	391

CW FLORIDA

ALACHUA	WB4CAP	1675
BAY	K4Vfy	27,531
CITRUS	K4LDR/4	7092
CLAY	W4WHK	17,340
DADE	W4BYB	22,790
	K4JWM	16,215
	WA4KJF	4350
	W4ILE	1380

	WA4JYB	798	K1HVV	1544
	W4HOS	63	W3DYA	1504
DUVAL	K4TRJ	13,570	K4RIN/4	1500
	W4ORT	9399	K1QFD	1450
	WA4UFW	8736		
FLAGLER	K4TBN/4	14,040	CALL AREA LEADERS CW	
IND RIVER	W4LEP	576	W1AQE	1558
ORANGE	K4IEK/4	17,052	WB2MRA	1324
	WA4LCO	10,384	WA3BDK	1828
POLK	WA4NBT	13,717	W4CKD	1792
	WA4TXV	4125	K5VTA	1732
ST. JOHNS	W4UHC	4182	K0GJD/6	1204
	W4EIE	3564	W7JHA	420
SUMTER	WA4LCO/4	1450	W8WVU	1545
VOLUSIA	WB4DJT	15,729	WA9ITB	1180
	W4UQZ	10,340	WA1BBE/0	612
	W4ZOK	8358	KL7FRY	216

FLORIDA TOP TEN CW

K4VFF	TOPE VE	VE1AE	565
W4BYB	Top Foreign	G3FKM	308

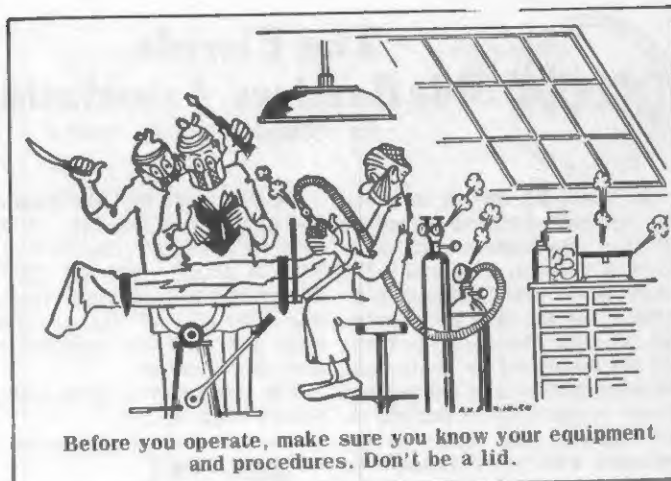
K4IEK/4
K4JWM
WB4DJT
K4TBN/4
WA4NBT
K4TRJ
WA4LCO

TOP TEN USA RAW SCORE CW

WA3BDK	1828
W4CKD	1792
K5VIA	1732
WA3BYW	1684
W1AQE	1558
W8WVU	1545

* * * * *

The Union's armored naval vessel TECUMSEH has been located under the mud in Mobile bay. Weston Instruments engineers used a spontaneous potential system to locate this vessel which was sunk in the Civil War. This system helped locate \$8.5-million worth of silver which was 'sunk' in Manila Bay during WWII. If the Tecumseh can be raised, it will be refurbished and put in the proposed Armed Forces Museum in Washington D.C.



Clean Amateurs Say-

DUZ you DRIFT with the TIDE? Well, now is the time to CHEER up. If you want real JOY, the TREND is to BREEZE to church on Sunday. Too many people WOODBURY their heads in a pillow or work to make their car SPARKLE, forgetting that the Lord's Day is made for LESTOIL. When the Lord is put first, a DOVE will never need to be sent with an S.O.S.

Maybe we ought to DIAL you to remind you of the IVORY

palaces yonder. Worship is your LIFEBOY so why not WHISK yourself out of bed next Sunday, dress up SPIC AND SPAN, and DASH like a COMET to Sunday School and church. As you sing PRAISE to God and hear his word, you will feel like MR. CLEAN all week long. (Via W4LPA - Miami)

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GALAXY V - MARK 2

TRADE-IN SPECIALS FOR JULY

DRAKE 2B with Drake LF Conv. (100 kc to 3 mc) new cond.	\$145
C.E. 20A & VFP, latest (E) Series	\$ 75
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EICO 723 60w CW Xmitter	\$ 30
NATIONAL HRO-60, all coils included, 6 meters, new cond.	\$195
ELMAC PMR-8 Rcvr., 6 meters, AC and DC, PWN supplies	\$ 65
JOHNSON 6NZ Xmitter, Brand New	\$ 65
JOHNSON RANGER 1, perfect	\$ 65
HALLICRAFTERS SX-101 MKIII A	\$145

Both

\$120

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The Florida Side Banders Association

By "Chuck" Ritchie W4BUG

It looks as though this will be my last entry as secretary of this association and editor of this column. Next month the association will have a new secretary for the next six months. So, at this time I wish to thank all the members for their help, encouragement and the support given to me while in this office. My thanks also goes to the officers with whom it has been my pleasure to serve. It has been an experience and an honor to act in this capacity and I hope that I will have the chance to again serve in some manner.

During this past month we certified two new members, they are K8WVH/4 John B. Brock of 108 W. Hillsboro Ave. Tampa, 33604, member 298, and Alice Bonnot W4EDY of 7707 W. Henry Ave., Tampa, 33615, member 299. Also WA-4MOL Louis Sicolo was recertified as member 254.

As you may know there is always something happening that's of news supporting our project towards the School for the Blind. WA4TWD donated a HE45 6 meter transceiver, and the six students from the school that took their Novice tests have all passed and we are looking for some equipment, so these students can get some gear on the air. I have it by the hearing aid that a donation has been made in this line, in support of these students and will be announced too late for this column.

Don't forget the new time of the association meeting, 2200Z or 6:00 PM DLST, and the FAST Net, at 2300Z, 7:00 PM DLST during this period. Again let me say "thank you" for all your help and may we continue to grow and prosper.

The best of 73 to all, be seeing you on 3940. KHZ.

SAMS TUBE SUBSTITUTION HANDBOOK

Nearly everyone who replaces tubes is faced occasionally with the problem of selecting a substitute type because an exact replacement is not readily available or is no longer manufactured.

One of the most popular answers to this problem is the new Howard W. Sams TUBE SUBSTITUTION HANDBOOK, 10th Edition. Listing thousands of direct substitutions, it is one of the most complete tube substitution books available.

The first section is a cross reference of American receiving tubes. Other sections cross-reference subminiature tubes, industrial substitutes for receiving tubes, communications and special-purpose tubes American-for-foreign-made tubes and picture tubes.

Instructions given in the various sections tell how to make proper substitutions and how to cross-reference between sec-



DON HAMILTON WA4FKH/AFB4FKH of Orlando is the new mailing officer for A.F. MARS and can be found most evenings on the MARS freqs.

(Photo via AFB/4JTK)

tions for additional substitutes.

Every section has been carefully compiled and checked by the Howard W. Sams Engineering Staff to make this the most thorough and exact reference of its type.

Invaluable as a reference and working guidebook for anyone whose work involves vacuum tubes, this new 10th Edition is more complete and up-to-date than ever, listing more DIRECT substitutions than any other cross-reference guide available. The price is only \$1.75.

Copies are available from electronics parts distributors and bookstores throughout the country, or from the publisher.

Tube Substitution Handbook, 10th Edition, Catalog No. 20534 (TUB-10). Size: 128 pages, 5-1/2 x 8-1/2". List Price: \$1.75

Special twin-pak Tube Substi-

tution Handbook package includes above guide for workbench plus pocket-sized guide containing identical information for tube caddy. Order No. 20536 (TUB-10P).

Both books, only \$2.25.

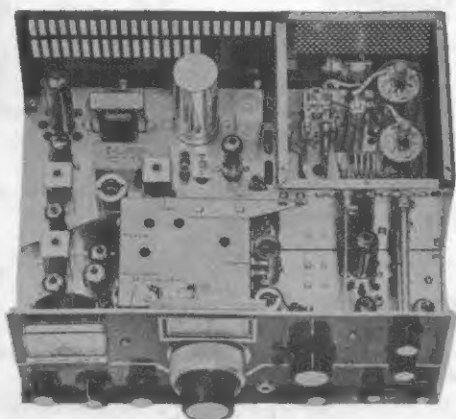
GRID LEAKS

If this reexamination of amateurs ever comes to pass I believe one of the first questions should be: explain why a SSB signal sounds 15-20 kHz wide when listened to on a 20 year old receiver in the AM position.

I know some of the SSB signals are lousy but I get disgusted every time I hear some individual with his Model T receiver complaining about all the spectrum the SSB boys are using. It is a most nauseating display of how far behind time a fellow can get.

ONYX

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NET NEWS

FMTN

By W4AKB

All of our wandering playboys have now returned to the land of sunshine and no rain. K4DAX Herb is back; Burch, WB4AIW is back, both to Bradenton. W4IE Charlie is back from Mexico and it is good to hear them again. Now WA4SCK, I.J., is leaving beautiful Vero Beach for a vacation up where it gets cold.

The hurricane season started on June 1st and will go through November. It's a good time to check-up on the antennas and outside equipment. Let's hope all the hurricanes miss Florida this year for a change, but — just in case — let's be ready.

FMTN meets every day except Sunday at 12 noon EDT or 1600z. We welcome all modes, AM, CW, SSB to check-in. Any station desiring to be placed on the roll may request the NCS to do so and you will be called each day. Stations not checking in over a period of weeks will be dropped from the roll but will be reinstated if and when they resume.

During the month of May there were 27 sessions handling 520 formal messages. Average QNI was 19.3; average QTC was 12.

73, Charlie

TROPICAL PHONE

KEN W4SMK

Net members will vote on June 11 to decide on whether or not to change the TPTN meeting time from 2100 to 2200 GMT. There is a good chance that we may change to the later time, so if you don't hear the net at 2100 listen again at 2200 Z Monday thru Saturday. Along with the Fla. Sidebanders, who changed their time, we have found that propagation conditions at 2100 on 75 meters are very poor in the summer. We are fighting poor conditions and thunder storms.

Welcome back to Birch-WB4AIW who has been out of state for some time now. Understand that WA4SCK I.J. is taking a well deserved vacation

from the traffic game. We will miss him since no one works harder than I.J. when he is active.

Reference W4MVB's column in June SKIP, we urge all net members to listen carefully when QSY'ing off to handle traffic. Avoid QRM'ing another QSO if possible. I have been just as guilty as some of you in this respect when I got in a hurry and didn't hear a weak station, etc. If the traffic load is light net controls can help by passing most of the traffic on net frequency. A little thought and co-operation is all it takes.

On the other hand, ragchewers also should if possible avoid operating within 10 to 15 Kc. of the net frequencies since nets usually send stations up or down 5 or 10 Kc. to handle traffic. There are plenty of other frequencies on 75 meters besides 3940 gentlemen, so oil up your rusty VFO's and move when the nets are on and you can avoid some of the QRM. If you go down to 3910 or below I can almost guarantee you no QRM from Fla. traffic nets.

I failed to get the TPTN totals for the last month so you can read them in W4MVB's column on traffic hounds. There have been pretty light totals in the QNI and QTC recently due to summer vacations, and the poor conditions we mentioned earlier.

QFN REPORT



By Bob
Blumberg
WA4OHO

QFN received a major setback when our good friend Herb K4KDN passed away. Herb has been a long time net member and has set operating standards which every amateur should strive to keep.

A real bombshell was recently tossed into my lap when WA4SCK informed me that he would be on vacation up North for at least a month. For the month of May, IJ was tops in almost every category including Top QNI, 4RN rep and RN5 rep and he came in second in the NCS category. This is quite a record and QFN has felt IJ's absence.

W4TRS has taken over as NCS on Saturday night. We still need Friday night. Anyone interested please ARL 7 WA4OHO. Regional net representation is also becoming a problem. Please, we need regular reps who



WE ARE PLEASED to present Jack Ross, K4NTD of Oakland, Florida one of our best VHF'ers in the Sunshine State. Jack said "I didn't try too hard to clean up the shack for the pix since this is the way it usually looks. Not exactly the pretty 'appliance type' shack you see nowadays, however K4NTD can transmit and receive on ALL amateur bands from 1.8 to 1296. MHz plus ATV. Normally can set up for any band in 3 to 4 minutes at the most". Look for Jack on UHF ATV. Amateur Television — that is.

AMATEUR OF YEAR

(Continued from Page 1)

Net activities, conducts two nets building many items of equipment and seeing to it that the working mobiles get to and from the "salt mines" in good shape.

We, the members of the Sun-coast VHF Club, past and present are all very proud to know Art. He has set an excellent example of what it means to be an Amateur Radio Operator of the Year.

are willing to devote one night a week for us. Please think it over.

Statistics for May showed a total QNI of 823, QTC 347 and QNF 1284 for a rate of 8.27 messages/minute. This rate is slightly lower than in previous months. Let's see if we can bring this up.

Glad to have several new stations of QFN. These include WA4TOQ, WA4MQH, WA4TNG, WA4TBM, and W4IMU.

Things are beginning to settle down a little under DST. However, the early session is often quite a mess. We will all be there, however, and we invite everyone to join us daily on 3651 kc and 2238 and 8288 Z.

PUT ZIP
in
your mail

Include
ZIP CODE NUMBERS
IN ALL ADDRESSES

FLORIDA ARPSC NETS

ARRL League Official/
Appointee net, 3950 Thurs. 8
PM Florida Amateur Side-
band Traffic, 3940 Sun.-Fri.
6 PM Florida Amateur Tele-
type Traffic, 3704, Daily 7
PM Florida Midday Traffic
Net, 7230 Mon.-Sat. Noon,
Florida Phone Traffic Net,
3945, Mon-Sat 7AM Florida
SSB Emergency Net, 3940,
Wed. 7:30 PM GATOR Net
3651, Daily 8:30 AM.

QFN All Florida c.w. Net,
3651, Daily 630 and 10 PM
South Atlantic Traffic (Fla.
to NY) 3950 Mon.-Sat, 1030
PM Tropical Phone Traffic
Net 3945, Mon-Sat 5 PM West
Florida Phone Net 3947, Dai-
ly, 6 PM. (All times in EDT)
(Keep this list near log.)

TOP TWENTY TRAFFIC TAKERS

Each month we are happy to list the top 20 Florida traffic takers. We hope to see your call here next month.

1. WA4SCK	BPL	768	11. W4FP	102
2. WA4BMC	BPL	552	12. WA4YII	98
3. WA4NEV		364	13. K4IEX	83
4. K4VFF		353	14. WA4HDH	82
5. W4FPC		227	15. WA4YIH	81
6. K4BSS		150	16. WA4QLZ	78
7. WB4BPL	BPL	118	17. W4MVB	73
8. WB4DSP		109	18. WA4OHO	62
9. W4SDR		106	19. K4DAX	58
10. W4BVE		104	20. W4AKB	56

TRAFFIC HOUNDS

By Jesse H. Morris, W4MVB

NET	QNI	QTC	SESSIONS	AVG QTC
FAST	992	314	27	11.6
GATOR	211	80	31	2.6
WPTN	531	130	31	—
FPTN	484	104	27	4.0
FMTN	520	324	27	12.0
TPTN	546	209	25	8.4
QFN	823	347	60	5.8
FATT	162	118	31	3.8
SATN	226	234	26	9.1



By Jim Wilson NØWCK

"Annex Bravo" - an amendment to our basic assignment of Nav-mars frequencies has just come from the printers. There are many frequency changes which will require some re-vamping of our Florida nets. We ask all members to be patient, for the new nets should be running smoothly soon.

We were all saddened to hear of the sudden death of Herb Hamilton K4KDN and NØHIP of Winter Haven on May 22. Herb was a very capable operator on either code or voice. For years he was eastern anchor man on QFN - the Florida CW net tied to the NTS. His fist was perfect and a joy to listen to. On our Navmars voice nets Herb was always glad to accept traffic. His cheery voice will be greatly missed.

Jim Cummings NØGAL of St. Pete, South Fla. area coordinator, is enthusiastic about the prospects of good state coverage using VHF-FM around 150 Mc. This net will employ used commercial equipment which we purchased at very low cost. Before long we hope to have repeater stations going and hope to activate traffic interchange nets with the other MARS services. These have already been authorized.

Georgia Denman NØGAJ, Coordinator for the N.E. Florida Area, is working hard to insure that the transition to the new frequencies will be smooth. She is getting very capable help from Deputy Coordinator W.H. Warmath NØFUM and Chief Tech. Rep. James Leavy, NØEQW.

North East Florida has an effective VHF net in operation and considerable traffic is handled on it.

A new member in that area was NØAXA. "Members of the

CLUB NEWS

(Continued from Page 7)

4 ECY, WA4HIF and K4LAN. More QNI's are needed from elsewhere in the Section.

Ft. Walton: WA4VSI has his ARC-1 converted for 2m SSB. Defuniak Springs: W4ECM was hospitalized for some time in Pensacola area, but took his HW-12 along to check into WFPN.

Panama City: WA4ZGI is the new EC for Bay County. The Tyndall MARS club has a 2m repeater in operation. K4VFX is the Section's top contest man. K4OOC is going into 2m FM in a big way, with base station and 2 mobile rigs.

Chipley: W4IKB has a 146.94 Mc. FM base station on the air. Blountstown: WA4CIH is announcing for local BC station. K4YSQ commutes to Tallahassee daily. K4NML only hams on weekends when home from school at Troy State.

Bristol: WA4VXD took an 18-month job assignment in Thailand. Quincy: The GENTS Club had Jim Lovette of DAVCO and your SCM as guests at the June meeting. Members contribute food and cooking to make each monthly meeting at the clubhouse a dinner meeting. WA4CZK works 75m SSB now with a SB-10/DX-100. When not hamming he is finishing work on Doctorate degree at FSU.

GRID LEAK

Heard a couple of the six meter lads chatting about the use of Lecher wires as a frequency measuring stunt on six meters. For some reason the name of Ernst Lecher (pronounced Lekar almost like Likker) is continually pronounced Letcher as in stretcher. Although it is good to hear that the use of Lecher wires as discovered by the Austrian physicist in 1926 is being discussed by the amateurs. Let's leave the incorrect pronouncements to the TV commercials.

W4FP Lakeland

Month" are: NØYJG, Leesburg, all bands; NØADY, Jax, 80 meters; NØHXV, Orlando, 2 meters.

NØARW, Sanford; NØAIL, Deland and NØHSN, Deland are congratulated on their faithful attendance at the monthly meetings in Orlando.

If you wish additional information about Navy MARS please write this correspondent,

W4GDK.



THIS CHARMING smile belongs to Mrs. Nita Bien, W4JCR, of Gainesville, Fla. Nita is one of Florida's longest-licensed YL's. Don't miss her article that will appear in SKIP next month.

Remote Tuning HF Receiver

Would you be interested in a remotely-tunable receiver covering the 2 to 32 MHz range, 100 dB dynamic range, 100 dB rejection of spurious responses, gain variation held to plus or minus 1 dB over the entire tuning range, and sensitivity of 0.07 microvolt? If so, contact Lorch Electronic Corp., 105 Cedar Lane, Englewood, N.J. 07631. The Price? A mere \$8,400.00!

(From Collector & Emitter, ACARC, Oklahoma)

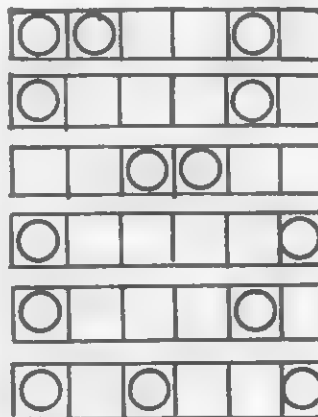
'SKIP'-eroo's THE BRAIN DEPARTMENT

Unscramble each line of letters and insert them in order in the boxes to the left of them. Each line forms a common word, mostly electronic, which must be in the proper order to give the correct solution. Then unscramble the letters within

the circled boxes and place in the box or boxes at the bottom to find the answer to this month's puzzle. Correct solution in next months "Skip".

This month's "SKIP"-eroo submitted by Dave Hayden, W4-

NO. 3 - "WHAT THE SHIPBOARD OPERATOR SAW IN HIS NIGHTMARE"



LIARAE

DROGUN

SARRET

SODIED

CAVIAR

MONDIW



SOLUTION TO NO. 2

IMPULSE
VOLUME
FEEDER

KEYERS
CHANNEL
FILAMENTS

"KENNELLY'S HEAVISIDE"

Have you got a puzzle or a SKIP-eroo? If so, submit complete with solution to K4FQU, 1413 Davis Dr., Ft. Myers, Fla. 33901



By Hal Bates--WA4FIU

On May 24, 1967 the QCWA met for the last time in the current season at Del Webb's Sun City at the Kings Inn. A fine luncheon as usual was served to about thirty members and guests. It was decided upon by the members present that beginning in the fall, we would have a meeting at the Kings Inn on the third Wednesday of each month

on a regular basis, and without notice to all members, so please take note.

A branch of QCWA is actually having these monthly meetings, and this branch is known by the name of "SUNCOASTERS" which is open to all hams and their guests, especially those from other QCWA Chapters throughout the nation. We have promises of some good guest speakers in the coming winter months, but normally the meetings are used for good old get-togethers and rag chews.

Wednesday's meeting was highlighted by two interesting

things, one the trip of W4DKJ or voyage to Portugal and his description of some of his 250 contacts made while enroute.

The other interesting thing was that Bob David W4YK had made and displayed a replica of the old "Spark Gap" Transmitters of some forty years ago and showed it to the group. A good many of the younger hams would be interested in that, I am sure.

Hope to see many of you in the fall, starting the 18th of Oct. at "Kings Inn" south of Tampa between Rts. 301 and 41 at Sun City, Fla.

LIKE THE POOR--THEY ARE WITH US ALWAYS

A person would think that after some 10 or more years of operating an amateur would begin to get in step with normal operating procedures. Such seems not to be the case. The band is still cluttered with those "mutton heads" who turn on the transmitter and CW while the receiver is warming up.

I sure wish some one would come up with a solution to get these aft ends of the horses connected with their front ends.

Onyx

'BUY FROM YOUR FELLOW AMATEUR' DEPARTMENT

FELLOW AMATEUR: Here are several firms that have an interest in YOUR business! They have seen fit to support the FLORIDA SKIP by giving us a little revenue each month in return

for your support. If you have a need for the services listed, you can't possibly do better than to deal with a fellow amateur, now can you?

 <p>FLORIDORAS</p> <p>EACH TUESDAY 9 A.M.</p> <p>3933 kHz ALL YLs WELCOME</p> <p>Pres. W4WPD, V.P. W4UF, Sec. W4EHN, Treas. W4BIL</p>	<p>TIME RECORDERS ACCESSORIES</p> <p>City Time Clock Exchange</p> <p>FACTORY AUTHORIZED LATHEN DEALER ALL MAKES SERVICED & REPAIRED W4OQL</p> <p>JOCK W. CRAWFORD 7201 S. W. 7TH ST. PHONE 221-3321 MIAMI, FLORIDA</p>	<p>K4BZY AUGUST F. GABRIEL Fort Lauderdale, Florida 33304 Telephone A305-524-8686</p> <p>The "HAM'S SPANISH-ENGLISH MANUAL" is designed for Radio Amateurs who want to communicate with the Spanish speaking amateurs throughout the world. It is written just as you would be talking to any HAM. The words are translated in phonetics for easy pronunciation and understanding. Expand your Latin-American QSO's, they are waiting and very happy to QSO you. LU7FAG Gus</p>
<p>For the BEST, get a time-tested ROHN TOWER Complete planning and erection service.</p> <p>For more info -- call or write: ED ROLLER, W4WYJ P.O. Box 894 Punta Gorda, Fla. 33950 (813) 639-2148 or 335-6651</p>	<p>MILK</p> <p>NATURES MOST NEARLY PERFECT COMPLETE FOOD</p> <p>W4GM - E.C. "Clark" Mattson Okeechobee, Florida Producers of Grade A Milk</p>	<p>don simcox ADVERTISING LAYOUT COPY PREPARATION & ASSOCIATES</p> <p>CALL 821-8432 801 W. 49TH ST. HIALEAH</p>
<p>Tedco of Melbourne, Inc.</p> <p>Galaxie Hollicrafters Elco Ameco Johnson</p> <p>WHOLESALE ELECTRONICS 2678 N. BABCOCK ST., MELBOURNE, FLA. Ted- WAYDHI Tiny-WB4EJX Ted-W4JHM</p>	<p>ROY'S RADIO & TV ZENITH SALES & SERVICE 5527 S.W. 8TH ST. - MIAMI ROY - W4ITO - FCC Commercial Phone: 661-0823 CHARLIE - W4CIK IRA - W4BGL TED - WB4CBP Same Location & Ownership Since 1955</p>	<p>NEW AMATEUR RADIO OPERATING MANUAL</p> <p>All your questions answered from start to finish in amateur communications. A "must" in every ham shack, be it new or old! See two-page in December QST.</p> <p>ORDER ONE OR TWO AT \$1.00 EACH FROM FLORIDA SKIP BOX 501 MIAMI SPRINGS, FLA. 33166</p>
<p>W4IAD W4TVK Specials on Foreign Tape Recorders, Radios, Hi-Fi-Stereo Equipment Parts-Service</p> <p>SAFS, INC. AUTHORIZED FACTORY SERVICE "Hi Fidelity Engineers"</p> <p>Hyman Lessin 2115 J.F. Kennedy Blvd. John Horn Tampa, Florida</p>	<p>QUALITY RUBBER STAMPS Made-to-Order - Signature - Stock LOWEST PRICES</p> <p>3 LINE POCKET \$1.00</p> <p>The Florida Folks T. D. "TOM" DICKIE - K4COO - Owner 615 ALBERTA AVENUE AUBURNDALE, FLORIDA 33823 TELEPHONE 967-2923</p>	<p>JENKINS SUPPLY CO., INC. 1686 Clearwater - Largo Road Phone 584-5282 Clearwater, Florida 33516 K4OF1 Amateur Radio Supplies</p>

CERTIFICATE HUNTERS

Compiled by W4OHP John Bowman
Assisted by WA4BMC and K8CIR

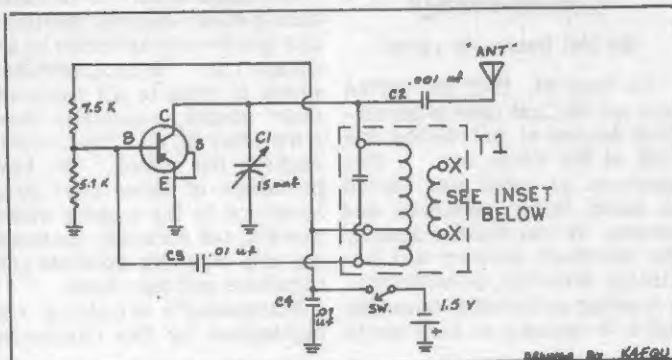
Believe it or not there are many Florida amateurs interested in certificate hunting. Like working DX or trying for a BPL (Brass Pounders League), many amateurs work hard to earn a certificate. SKIP recently was requested by three top "hunters" (W4OHP, K8CIR, and WA4BMC) to publish a list of "free or postage only ama-

PART III

93. Floridoras, Marge Campbell K4RNS, 1700 Nova Rd., Holly Hill, Fla. 32074.
94. Cradle of confederacy - P.O. Box 6187 - Award by Montgomery ARC, Montgomery 6, Ala.
95. Worked Birmingham - K4HPR award by Birmingham ARC
96. All Counties Award by Montgomery ARC - P.O. Box 6187, Montgomery 6, Ala.
97. Flamingo Net Cert. W4WYR
98. Suncoast Award by Suncoast VHF Club, P.O. Box 12185, St. Petersburg, Fla. 33733
99. Worked All Florida Counties by Dade County RC - P.O. Box 104, Miami, Fla.
100. Miami RC by same Club - P.O. Box 81, South Miami, Fla.
101. Flamingo Cert. by Flamingos Club - W4WYR
102. Morons by Morons of the Megacycles - P.O. Box 1028, Tavares, Fla., Lake ARC
103. Wing Dingers by same club - W4HLE
104. Fla. Long Haul Gator by FLHG DX Club - W4ORT
105. JARS by Jacksonville ARC - W4CCD
106. Skip Merit by Fla. Skip Magazine - W4IYT, Box 501, Miami Springs, 33166.
107. Conch Net Cert. by Key West ARC - P.O. Box 579, Key West, Fla. 33041
108. Worked All Miami Springs by Miami RC - K4OSQ
109. Sailfish Award by West Palm Beach RC - City CD Bldg. 823 Newark St. West Palm Beach, Fla. 33401
110. WAS - RTTY by RTTY Bulletin - W4RWM
112. Red Stick by Baton Rouge RC - W5HWV.
113. WAL by Lafayette ARC - WA5CFS
114. SWL ARC Awards by Southwest Louisiana ARC - WA5ARV
115. Ranger Cert. by West Gulf DX Club - 9015 Linkmeadow Ln. Houston 25, Tex.
116. El Paso by El Paso ARC - W5ES
117. Worked Corpus Christie by Same ARC - P.O. Box 2073, Corpus Christie, Tex.
118. Worked All Amarillo by Panhandle ARC - 1800 Harrison St., Amarillo, Tex.
119. Ding Dong Daddy of Dumas Award by Dumas ARC - K5PZZ
120. Orange Award by Orange ARC - K5VXP
121. Cowtown 6 Meter DX Club - K5TIQ
122. Tip-O-Tex by Lower Rio Grande Valley ARC - K5KTX.
123. 6 Meter Club of Dallas - K5VRY
124. H Y-Rangers of Fort Worth - W5AWQ
125. El Paso VHF-UHF ARS - K5QPV
126. Bluebonnets - W5TXG
127. Edmond by Edmond ARS - 123 N. Broadway, Edmond, Okla.
128. Shawnee Indian by Shawnee RC - 654 N. Union St., Shawnee, Okla.
129. Wheatstraw ARC - P.O. Box 196, Calumet, Okla.
130. Sooner Sixes Award by same ARC - W5IPY
131. Bullfrog New Award by same net - K5FLK
132. Indian Hills Five Award by Indian Hills RC - W8SZF
133. Greater Cleveland VHF Award by GCVRC - W8OIS
134. West Park A - W8WUO
135. West Park B - W8WUO

"TRANSISTORIZED" BFO (455 KC)

A Reprint from "QRZ'D" Ramona RC,
San Gabriel, Calif.



T-1 Miller No. 9-C2 Transistor I.F. (Modified)

Modify the transformer by removing the shield can and backing the slug out as far as it will go. Now gently clip the two leads at the pins marked and shown with an X. Do not dam-

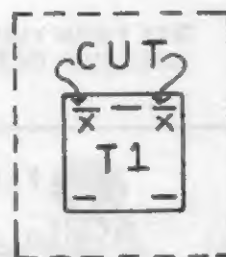
TAKE IT EASY

Day after day I hear some disturbed soul working himself (or herself) into a lather about the conditions on the ham bands.

One guy gets in a tizzy because he did not get his SSB badge. One gal moves off frequency and the net is already closed when she gets back. Another fellow objects to how the roll call is handled. Another gal is peeved because the queen bee of the new gang answered her with a tinge of sarcasm in her voice.

I realize all these are human shortcomings however there is no need to get on the air, clutter up the channel for an afternoon, and unnerve the rest of the people. If you must get it out of your system turn off the transmitter and talk to the dead mike. It will be a lot more effective for everybody and achieve about the same results.

Why don't I go and mind my own business. If I did what would Andy have to put in this empty space? ONYX



age the base or the small capacitor within the transformer.

The pitch of the BFO is controlled by the 15 mmf variable which is a trimmer. Align by setting trimmer at midpoint and tuning a station to center on your receiver. Now adjust transformer slug for a zero beat. Antenna can be any bare or enameled wire loosely coupled around the antenna input of the receiver or the receiver lead of a T-R switch. Care must be taken against transmitter signal or the transistor will be ruined. The transistor called for is a PNP type 2N544 however is now out of production. If unavailable an RCA type 2N-217 is a direct replacement. All resistors are 1/2 watt. Condensers should be ceramic except C4 which is tubular.

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100 MESSAGE CARDS \$1.00

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HAMBAR

This column is FREE to any licensed Radio Amateur who is a subscriber to Florida Skip. Limit 3 per year. Additional \$1.00 each. Non-subscribers and non-amateurs \$1.00 each up to 10 lines. All listings are cancelled each month. If your listing is not moved, it will be necessary to relist the following month.

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To Commercial Business: Classified, undisplayed - 50¢ per line; Illustrative or General Display with border - \$3.50 min., \$80/page; Initial cost of cuts, additional. Cuts furnished, no charge. Deadline 10th of month.

An Advertising inch is measured 7/8" vertically on one column, i.e., 4 columns - 40 column inches to a page. Rate card by column inch supplied upon request. FLORIDA SKIP, Advertising Department, P.O. Box 501, Miami Springs, Fla.

FOR SALE: B&W 5-way coax switch \$5.00. B&W KW low pass filter \$9.00. VF-1 Heath VFO \$9.00. Cescro SWR meter 52-M \$15.00. All mint condition. E.C. Pickham W4DSD, 344 SE 11th Ave., Pompano Beach, Fla. 33060

WANTED: Two meter gear, receiving and transmitter. No Towers please. Vic Lindsay WN4DNP, P.O. Box 591, Port Salerno, Fla. 33492 Phone 287-4351.

WANTED: For Christian radio network in Brazil: Millen Grid Dip with low freq coils. 2 new 833's, 4 sockets for 833's, RF meter 0-3 or less. 4 mfd/2KV and 2 mfd/5KV oil filled condensers. Silicon replacements for 866's and 872. 220 v. ac. time-delay relay. 1 KW dummy load. F4-55Y40 or similar Collins filter. Curt Goodson W4QBU, 2269 SW 17th St., Miami, Fla. 33145 Phone 448-7343.

WANTED: BC-221 frequency meter at bargain price. Clem Bogdan WV-4CS, Crux Bay, St. John, U.S. Virgin Islands.

COLLINS S line, mint 75S3B with extra cw filter. Ser. 15042 \$550.00. Serial 13798 \$595.00. 516FZ \$85.00. All just like new. WANT SB-101 in trade etc. Foy Coble WA4LXX, 251 Collier Ave., Nashville, Tenn. 37211

FOR SALE: AR-22 rotator with cable, control box \$15.00. Hy-Gain Monobander 20 meters model 203 \$40.00. Complete U.S. Fiberglass Quad new with spiders and fiberglass arms \$20. BC-348 receivers converted 110 v.a.c. Miguel Murciano YN1MO, 1195 Milan Ave., Coral Gables, Fla. 33134 Phone 445-8014.

FOR SALE: R390A, receiver, mint condition. SR-42, HA-26, mobile mount, halo, almost new. All contacts answered personal delivery anywhere in Florida. Ace Brown WB4AKJ, 226 Newburyport Ave., Altomonte Springs, Fla. 32701.

FOR SALE: Hallicrafters SSB xmtr HT-37 excellent condition \$200.00 also matching Hallicrafters linear amp HT-41 \$150.00 FOB. Frank Shannon K4GT, 5400 - 97th Terr. N., Pinellas Park, Fla. 33565 Phone (813) 544-1632.

FOR SALE: New sockets and chimney and used 4-1000A tubes. Dumont 241 scope; Telrex TM-30C; Telrex TC-99C; D-104 PTT; 2 meter ground plane; AR-2 speaker; B&W550A; new 10-D mike; TS175U; HV fileter condensers; chokes; Jones Micromatch; BC-221AH; Collins 35C2 LP fileter; etc. Dan A. Summer K4TML, 1712 SE 14th St., Ft. Lauderdale, Fla. Phone Ja 4-0918.

WANTED: Field Day scores. Don't delay - do it today. Editor, SKIP.

WANTED: Florida ham call license plates for 1950 and 1952. Georgia most any year. Ala. 55, 58 and 60. Many others plus DX. Trying to complete the collection. Dave Heller K3-HNP/W5NFJ, P.O. Box 311, Bristol, Pa. 19007.

FOR SALE: HT-37 in very clean condition \$200.00. PolyCom 62-B six and two meter transceiver with a.c. and d.c. power supply and 6 and 2 Finco antenna \$150.00. C.C. Fowkes WB4-BOM, 200 SW 18th St., Pompano Bch., Fla. 33060 Phone 933-2076.

WANTED: Johnson Match Box or equal. Grid drip meter, phone patch, quad. Will trade or buy. Also have 2 rotating speaker cabinets for electronic organs and will trade for side-band equipment. Doug Rice WA4NZI, 301 SE 8th Ave., Pompano Beach, Fla. 33060 Phone 942-6246.

**NOTICE: Effective
June 10, 1967
HAMBARS 25¢ - 10 lines
(7 words per line)**

WANTED: Galvanized tower, crank up, tilt over with ground post, 40 foot or higher. Henry J. Heot, WA-4ZLP, 1922 Ocala Rd., Juno, Fla. 33403

FROM ESTATE of Russell Stone W4-FRZ. Meteor SB-175, WRL power supply \$75.00. Johnson Match Box, small \$50.00. Hallicrafters to Keyer \$45.00 or make offer. A.C. Stone XYL-W4FRZ, 2061 SW 36th Terr., Ft. Lauderdale, Fla. Phone in evenings 523-3315.

FOR SALE: Complete AM/SSB station HT-32, ser. #185940; Collins 75A4 ser. #4478 with mechanical filter and matching spkr; coax-Ratiometer, mike, Mosley Vertical, Dow relay, cables, and operating manuals. Mint condition, package deal. \$750. Lloyd B. Knouse WA4VRI, 1520 Norwood Place, Clearwater, Fla. Phone 446-2053.

FOR SALE: Monarch FSI-3 SWR bridge \$8.00; Johnson Adventurer 80 thru 10, 50W CW, \$25.00, perfect nice or standby rig; Heath Balun coil set B-1, \$5.00; Heath C-3 condenser checker \$8.00; RME DB-23 preselector 80 thru 10, \$23.00. All clean and with manuals. Andy Clark W4ITY, 41 Lenape Drive, Miami Springs, Fla. 33166, 888-3874.

SELL OR TRADE for 6 or 20 xcvr: Prop-pitch motor with selsyn and radio compasses; BC 348 110VAC; Hazeltine TES-6 rcvr, xmtr, pwr sup, cables; AF and RF signal generator; variable and fixed xmtr capacitors; xfmrs, tubes, etc. Tom Stanton,

WB4DOX, 362 NE 92 St., Miami Shores, Fla. Phone 751-2063.

WANTED: DK-72 coaxial change-over relay. Theodore R. Wayne WA4CPB, Suite 325, 1000 Ponce DeLeon Blvd., Coral Gables, Fla. 33134, Phone 444-5701.

OPENING SPECIALS on reconditioned ham gear. No trades on these low cash prices. HQ100C, \$89.00; Phasemaster II SSB-AM-PM-CW 10-160 meter transmitter, \$79.00; Elco 720, \$39.00; SX-101, \$119.00. Many other specials, 30 day guarantee on all used equipment. Buy where you get service. Get it from Grid at The Ham Shack at Tel-Appliance, 1966 Hillview, Sarasota, Fla., 33579. Grid, W4-GJO.

FOR SALE: SX-146 Hallicrafters amateur band receiver, like new, used only 6 months \$150.00. Rick Saul Wn4EOF, 7800 Hawthorne Ave., Miami Beach, Fla. 33141, Phone UN 6-5947.

FOR SALE: Henry 2K linear, 11ke new, \$575. Microwave Equip. Co., 4121 N.W. 27th St., Miami, Fla. 633-3415.

FOR SALE: SB 200 in new condx, used very little, \$200.00. W.C. Plante, W4AAT, 172 Carlisle Dr., Miami Springs, Fla. 33166, Phone 888-8472.

FOR SALE OR TRADE: Vallant I, a 12 inch speaker, two DB-22 presellectors, one KW homebrew in 7 foot Bud cabinet complete with 2-250TH, power supplies, final power variable to 300 v at 1 amp d.c. Mod. 813s, coax cable. 1000 foot, 2 power variable to 3000 v at 1 amp d.c. Mod. 813s, coax cable. 1000 foot, 2 wire #18 fabric and Neoprene tree wire. 3 inch scope supreme, also lots of odds and ends. Hamming since 1921. W.B. Bell, W4BB, 224-79th Ave., NR, St. Petersburg, Fla.

FOR SALE: Complete AM/SSB station HT-32, Ser. #195940; Collins 75A4 Ser. 4478 with mechanical filter and matching speaker; Coax-Ratiometer, mike, Mosley Vertical, Dow relay, cables, and operating manuals. Mint condition, package deal. \$750.00. Lloyd B. Knouse WA4VRI, 1520 Norwood Place, Clearwater, Fla. Phone 446-2053.

FOR SALE: Heath HW-20, Pawnee 2 meter transceiver, just reconditioned at Heath with mike, AC cord, mobile mounting bracket, first \$140.00 gets it. Globe Chief DeLuxe, needs new xmr, \$30.00; Tapetone mode XC-50-C double cascode 6 meter converter, \$15.00; 24-hour digital readout clock \$10.00. Abe Schonfeld, WB4CLA, 57-36 Pine Tree Drive, Miami Beach, Fla. Phone 865-2653.

FOR SALE: Vallant II with SSB adaptor and NC 303 rcvr with calibrator, in operation; Tri-Ex tower, telescoping 70 ft. with 20 ft. extension; Telrex tri-bander beam; 275W Johnson matchbox; New Johnson directional coupler, plus other gear. J.R. Peterson W4OBB, 2215 St. Johns Ave., Palatka, Fla. 32077.

FOR SALE: Heath SSB Singlebender 75 meter xcvr HW-12, \$75.00 with homebrew AC supply and spkr cabin-

et. Glynn Walden WA4LHK, 4851 SW 82nd Street, Miami, Fla. 33143, Phone Mo 1-3396.

FOR SALE: Complete station: HT-32, SX11, Matching speaker, key, 14AVS vertical, CW monitor, very clean, perfect working condx, \$295.00 package only. John Miller WB4DPY, 18601 SW 97th Place, Miami, Fla. Phone 235-7572.

FOR SALE: From the estate of Ben "Cookie" Cooke, W4TVE...Collins 75A4 serial 4167, CE 20A exciter, CE 600L RF Amplifier, including all necessary gear to put you on the air. Neatly packaged in four foot cabinet, \$525.00 or best offer. Call during day please. Mrs. Edith Cooke, Midway Trailer Park, Vero Beach, Fla. Phone 567-5320.

Brief Chronology of N.B.S. Standard Frequency Broadcasts

Mar. 1923 - First scheduled broadcasts of WWV - Washington, D.C.

Jan. 1931 - Crystal controlled broadcasts - WWV - College Park, Md.

April 1933 - WWV gets first 20 kw transmitter - Beltsville, Md.

Jan 1943 - WWV relocated to Greenbelt, Md.

Nov. 1948 - WWVH commenced transmissions - Maui, Hawaii.

Jan. 1950 - WWV added voice announcements.

Jul. 1956 - WWVB (KK2XEI) began 60 kHz broadcasts - Boulder, Colo.

May 1958 - Proc. IEEE (IRE) started publishing WWV frequencies.

Apr. 1960 - WWVL started 20 kHz broadcasts - Sunsets, Colo.

Jul. 1963 - WWVB began high power broadcasts - Ft. Collins, Colo.

Aug. 1963 - WWVL began high power broadcasts - Ft. Collins, Colo.

Jul. 1964 - WWVH added voice announcements.

Dec. 1966 - WWV relocated to Ft. Collins, Colo.

FLA. DX'ER MAKES GOOD

We are happy to report that John A. Attaway K4HF of Winter Haven has taken over as DX Editor for CQ Magazine in April. John is a real good DX'er and writes an excellent column. We strongly urge you all to read it each month.

K4HF was once a SKIP correspondent and served as an officer in the Winter Haven Radio Club. Good luck John.

Single Side Band

Bob Wilder W2ZRX/4

Single Side Band is one of the many advancements made in electronics in the last fifty years. SSB is now being used in both radio and telephone work, with the apex of uses for SSB not yet being reached.

In 1915, John R. Carson, by mathematical analysis of amplitude modulation (AM) came to the conclusion that it is possible to remove one sideband and the carrier from the AM signal and yet retain essential modulation components of the modulating signal in the remaining sideband. His discovery led to continuing speculation on the part of contemporary radio and telephone engineers regarding the existence of sidebands in an AM signal.

After Carson's analysis, it was only a short period of time before D.H. Arnold experimented and proved that SSB was possible. Within three years after Carson and Arnold showed that SSB was possible, the first commercial carrier apparatus for wire telephone service was developed and placed in operation. The need for long haul telephone circuits provided the impetus for rapid installation of SSB carrier systems for wire transmission. SSB modulation has been almost universally applied to the carrier telephone systems of the world since 1918. It is natural of course that engineers of the international telephone companies should



LAST MONTH on the front page we ran a story "W4CPG to ARC". Here is Russ Paterson W4CPG behind the counter writing up an order. Russ is well-known for his countless ham-fest trips throughout Alabama, Georgia, and Florida in years gone by. When around Amateur Radio Center in Miami, stop by and say hello. (SKIP photo)

turn to SSB for radio circuits to improve transmission.

In 1923, experiments using a balanced modulator and filter at 33.7 Kcs and a second balanced modulator to convert the SSB signal 1 distortion amplifiers raised the power level to 150 KW. From 1923 and for the next few years experimental voice transmission took place between a transmitter at Rocky Point, New York and a receiving station near London. In 1927 a 2-Way SSB circuit across the

Atlantic Ocean at 55 Kcs, with the cooperation of the British Post office went into service. In 1933 and 1934 comparative tests of double sideband (DSB) and SSB took place between England and the United States. At the same time, a circuit utilizing SSB was placed in service between the Netherlands and the Netherlands East Indies. Experimental and practical results indicated the expected improvement due to the use of Single Side Band. Results based

on the extensive Trans-Atlantic tests showed that an improvement of 8 db over AM (for equal peak power) was possible when using single sideband.

Since the middle 1930's many short wave international radio-telephone circuits have been placed in service. These links have generally made use of pilot-carrier SSB with AFC in manually tuned receivers. The 1950's saw extensive use of suppressed carrier SSB by radio amateurs who were one of the first to develop this type of transmission to such a fine art. Later in the fifties the military began using suppressed carrier SSB for many applications.

The uses of suppressed carrier single side band systems are now wide spread among the military and commercial concerns. Single side band is used in microwave equipment, multiplex equipment, telephone equipment.

This has been the first of a series of articles which first appear in the Maintenance Summary of the 1920th Command Squadron. The next article will deal with the history of the development of television. 73's CUL Bob, W2ZRX/4

(From the Bandsread, Eglin AFB)

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